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Tackle technique knowledge alone does not translate to proper tackle technique execution in training

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ABSTRACT

Objectives Effective tackle technique is associated with reduced injury risks and improved performance in contact. Injury prevention programmes aim to provide players with knowledge of effective technique. However, little is known of the impact of this knowledge on a player's technique in the tackle. This study aimed to determine the association between knowledge of proper tackle technique and tackle technique proficiency in training.

Methods Fifty-three rugby union players participated in a tackle contact drill and, thereafter, completed a questionnaire. The drill was filmed, and the players' tackle and ball-carry technique were assessed using standardised technical proficiency. In the questionnaire, the players were asked to rate the importance of each tackle and ball-carry technique on a 5-point Likert scale, for both injury prevention and performance tackle outcomes. Linear regression was performed to assess the relationship between the knowledge of the importance of proper tackle technique and tackle technique proficiency during the drill.

Results No association was found between players' knowledge of the importance of proper technique and tackle contact technique in training for both injury prevention and performance.

Conclusion The lack of association between players' knowledge and actual tackle contact technique reveals the gap between the knowledge of safe and effective techniques and the knowledge of how to execute the said techniques.

INTRODUCTION

In rugby union, the tackle is the most frequently occurring contact event and carries the greatest risk of causing injury.^{1–3} For example, in youth rugby union, a tackle-related injury occurs every 37 playing hours.⁴ One of the major risk factors for sports injuries is technique.⁵ For the tackle specifically, technique has been shown to reduce the risk of injury for both the ball carrier and the tackler.^{4,6} Proper technique has similarly been shown to increase the likelihood of success in the tackle.^{7,8} As such, national injury prevention programmes aim to provide coaches, trainers and players with knowledge of proper tackle technique.⁹ For injury prevention

Key messages

- High awareness of importance of tackle and ball-carry technique to reduce tackle-related injuries in academy rugby players.
- High awareness of importance of tackle and ball-carry technique to win the tackle contest in academy rugby players.
- The players' awareness of safe and effective technique did not relate to their technique proficiency in a contact training drill.

strategies like these to work, the performance benefits of proper technique in the tackle are also advocated.¹⁰ For example, 'safe technique is also effective technique'.^{11,12}

Knowledge of technical skill can be described as either declarative or procedural.¹³ Declarative knowledge refers to knowledge that is factual.¹³ It emphasises what to do to perform a skill.¹⁴ Procedural knowledge refers to the knowledge of how to perform a skill.^{13,14} Acquiring declarative knowledge is often described as the first stage of learning.¹³ This knowledge can then be developed into procedural knowledge.¹³ For example, when learning to drive a car, the first step is to learn the actions for operating a car (declarative knowledge). Through practising these actions over multiple occasions, the processes (using the clutch, checking mirrors and so on) are internalised until they become habitual and can be performed without thinking about the instructions (procedural knowledge).¹⁵

The knowledge provided through the injury prevention programmes to rugby union stakeholders (coaches, trainers and players) can be described as declarative. Rugby union stakeholders are provided with technical instructions on how to tackle in a safe and effective manner.¹¹ Training is the environment where athletes prepare for the demands of competition; therefore, these technical instructions are focused on



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developing players' procedural knowledge of proper technique during training. In South Africa for example, the dissemination of declarative knowledge to rugby union stakeholders seems to be effective, as both players and coaches have reported a high level of awareness of the importance of proper technique to improve performance and reduce injury risks.^{16–18} However, whether declarative knowledge has an impact on players' actions in the tackle contest, in training or matches, is yet to be investigated. Therefore, the purpose of this study was to describe the relationship between knowledge and behaviours in the tackle contest, by comparing players' knowledge of the importance of tackle technique with their tackle technique proficiency, in a tackle training drill.

METHODS

Participants

Fifty-three South African academy-level male rugby union players participated in this study (25 forwards and 28 backline players). All the players were free from injury and had played rugby union for at least one calendar year. All procedures were approved by the designated university's human research ethics committee (HREC778/2017), and informed consent was obtained from the players prior to them taking part in the study.

Study design

A cross-sectional design was used to compare rugby union players' knowledge of the importance of technique for injury prevention and performance in the tackle and their tackle technique proficiency. The players' proficiency in tackle and ball-carry technique were recorded in a two-on-two contact drill and assessed retrospectively using standardised tackle and ball-carry technical criteria.^{4 6 19} The tackle drill was designed to have a high degree of ecological validity and representativeness. That is, it should provide athletes with relevant affordances and perception-couplings, facilitate the integration of motor processes (ie, techniques) with perceptual-cognitive components (decision-making and tactical awareness), and have action fidelity (the skills and actions performed in training should be able to easily transfer to competition).^{20 21} To meet these criteria, the drill included a phase of play before the tackle. It was performed in the corner of a rugby field at the point where the touch-line and the try-line meets, with the ball carrier aiming to score the try and the tackler aiming to prevent the try from being scored. Furthermore, studies using this tackle drill have shown encouraging construct validity by differentiating between levels of play^{22–24} and have been associated with match performance outcomes.^{25–27}

Players' knowledge on the tackle were measured through a tackle questionnaire. The questionnaire required the players to rate the importance of each tackle and ball-carry technical criterion (on the standardised technical criteria lists) for performance and injury prevention using a 5-point Likert scale.

Technique assessment

The two-on-two contact training drill was used to assess the tackle proficiency of the players. Before testing, the players were warmed up and familiarised with the drill. The drill has been described in detail elsewhere.²⁴ In brief, the drill started with a simulated ruck, where the ball was passed, via the first attacker, to the ball carrier. The ball carrier then advanced the ball forward in the direction of the tackler. The ball carrier was instructed to 'score the try' and the tackler to prevent the ball carrier from scoring the try using safe and effective tackle technique. The first defender and the first attacker were instructed not to assist in the tackle, but, after the completion of the tackle, to form a ruck. The drill was performed in the corner of a rugby union field. The drill was filmed, and the players' proficiency in tackle and ball-carry technique proficiency were assessed retrospectively using standardised tackle and ball-carry technical criteria.^{4 6 19} The footage of the ruck was not analysed in this study. The first author (SdH) recorded and analysed all the tackle events. The players were awarded 1 point for each criterion they performed and 0 point if they failed to perform the criterion. The number of criteria performed were totalled to provide a score (arbitrary units) for each tackle and ball-carry.^{24 28} Each player performed four tackles and four ball-carries, with the players rotating between roles in the drill. The total scores were averaged to calculate the tackle proficiency and ball-carry proficiency score for each player.

Questionnaire

After completing the contact drill, the players were sent an electronic questionnaire on their knowledge on the tackle situation. The questionnaire, modelled on previous research,^{16–18 21 29} consisted of 10 questions related to training and 5 questions related to matches. Questions related to importance and behaviours consisted of a question and a 5-point ordinal Likert scale. Importance of an item was rated on the following scale: (1) *not important at all*, (2) *not too important*, (3) *undecided*, (4) *somewhat important*, (5) *very important*.³⁰ The quantity of behaviours was rated on a scale of (1) *not at all*, (2) *a little*, (3) *a fair amount*, (4) *much*, (5) *very much*.³⁰ If a player was not familiar with any of the techniques listed in questions 6 and 7, they had the option of answering *not familiar* (NF). The questionnaire was developed on Google Forms (online supplemental appendix 1). Only the responses to questions 6 and 7—where players ranked the importance of tackle or ball-carry technique for winning the contest and preventing injuries—were analysed in this study. The Likert scale responses to these questions (1–5) were averaged to provide an overall score for how important the player found tackle technique or ball-carry technique for performance and injury prevention (no players selected NF as a response).

Public involvement in research

The public was not involved in the design of this study. However, in previous studies, a panel of rugby coaches,

sports scientists and rugby administrators were consulted for the development of the questionnaire¹⁷ and the standardised technical criteria used in this study.⁶

Statistical analysis

A Spearman's rank correlation analysis was done to assess the effect of the overall scores for the importance of technique for performance and injury prevention on the technique proficiency scores, given the ordinal nature of the questionnaire data. The analysis was performed between the questionnaire responses and technique proficiency assessment scores for each individual technique and the overall scores, for tackling and ball-carrying. The level of significance was set at $p \leq 0.05$. STATA V.13.0 (StataCorp LP, USA) was used for all statistical analyses. Data are reported as means and 95% CI, and Spearman's rank correlation coefficient (r_s).

Reliability

To assess the intra-rater reliability of the analyst, five randomly selected players' tackles and ball-carries were analysed on two separate occasions. To assess the inter-rater reliability of the analyses, a second analyst, experienced with the criteria, assessed the same five players' tackles and ball-carries. Intra-rater and inter-rater reliability were calculated using the interclass correlation coefficient (ICC) and the typical error of measurement (TEM).^{4 31} The ICCs for both the intra-rater and the inter-rater tackle and ball-carry assessments were 1.0. The TEMs for the intra-rater tackle and ball-carry assessments were 0.7 and 0.5 arbitrary units (AU), respectively, and for the inter-rater, TEMs were 0.6 and 0.6, respectively.

RESULTS

Total technique scores

The mean technical proficiency scores were 8.9 out of 16 AU (95% CI 8.5 to 9.3) and 9.3 out of 14 (95% CI 8.9 to 9.7) for tackling and ball-carrying, respectively. Ninety-six percent of players ($n=51/53$) rated the importance of tackle technique to prevent injuries as *somewhat important–very important*. Similarly, 94% ($n=50/53$) rated the importance of tackle technique to win the tackle contest as *somewhat important to very important*. For the ball carrier, 91% ($n=48/53$) of players rated the importance of technique to prevent injuries as *somewhat important–very important*, and 92% ($n=49/53$) rated the importance of technique to win the tackle contest as *somewhat important–very important*. There was no significant relationship between a player's attitudes towards tackle or ball-carry technique for injury prevention and performance and his tackle or ball-carry technical proficiency score (figure 1).

Specific technique scores

The mean scores of the rated importance for each of the tackle and ball-carry techniques for injury prevention and performance were above 4 (*somewhat important*) (mean \pm 95% CI range: 4.1 \pm 0.2–4.9 \pm 0.1) except for the importance of the ball-carry technique *side-on into contact*

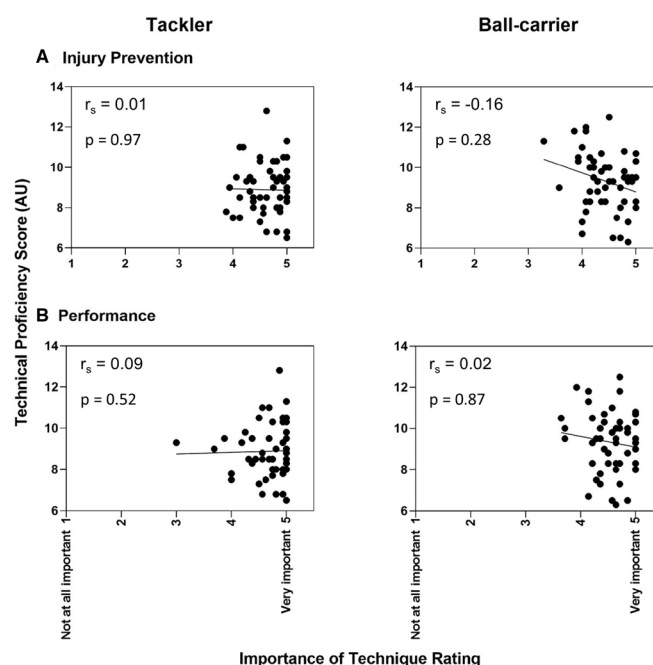


Figure 1 The relationship between tackler and ball-carrier technical proficiency scores, and the subjective importance of technique to prevent injury and to win the tackle contest. Lines represent line of best fit.

for injury prevention, which had a mean score of 3.9 \pm 0.2 (*undecided–somewhat important*). For each individual tackle and ball-carry technique, the rated importance of each technique for injury prevention or performance was not related to a player executing the technique in the assessment (r_s range: -0.4 to 0.3).

DISCUSSION

Declarative awareness of safe and effective technique did not translate to execution of safe and effective technique

The purpose of this study was to determine the association between players' knowledge and attitudes towards safe and effective technique and their tackle and ball-carry technique execution. We found a high level of awareness among the players for the importance of technique to improve tackle performance and reduce tackle injury risks. This work supports previous research^{16–18} and highlights the effectiveness of a national injury prevention programme on increasing coaches' and players' knowledge of the importance of proper tackle technique. However, the knowledge of the importance of tackle and ball-carry technique did not translate to their tackle and ball-carry technique proficiency scores, respectively. This brings into question the effectiveness of this strategy alone on improving players' tackle technique. A similar question was raised in a systematic review of educational programmes to prevent concussions in rugby union.³² The review concluded that although educational programmes were effective in disseminating information to rugby union stakeholders, scant evidence was found on the education actually changing player behaviour towards concussion.³² Therefore, although

disseminating educational material on safe and effective technique is adequate in improving declarative knowledge, it may not be sufficient on its own to reduce the tackle injury burden in rugby union.

Gap between declarative and procedural knowledge may be the result of insufficient contact technique training

The gap between players' declarative knowledge of proper tackle technique and their procedural knowledge of how to execute proper tackle techniques (reflected in their technical proficiency scores) is similar to a gap found in coaches' tackle knowledge and behaviours.¹⁸ In this study, coaches rated safe and effective technique as utmost important; however, this knowledge did not reflect on the amount of time they spent coaching tackle technique in training.¹⁸ Another study on the training volume of English professional rugby union over 11 seasons showed that only 24 min per player per week (out of an average of 6 hours 48 min per player per week of training) was spent in full contact sessions.³³ The amount of time spent training the tackle, and the lack of association between knowledge of technique and actual technique found in this study, raises the question of whether the time spent on contact training is sufficient to allow players' declarative knowledge on safe and effective tackle technique to become procedural knowledge. One of the reasons given for the discrepancy between coaches' knowledge of the importance of technique and their training of tackle technique was that they did not feel confident in their ability to coach tackle technique.¹⁸ As a result, any full contact training sessions are likely to be less structured rather than technique focused. The dynamic environment of unstructured contact sessions exposes players to greater injury risks.³³ Consequently, to protect their players, coaches may reduce the amount of time spent in full contact session, resulting in players not fully developing the technical components of their contact skills. Therefore, strategies that provide frameworks to equip players and coaches on how to train tackle technique safely may be more effective to improve tackle technique.^{34 35}

Tackle technique training framework

Strategies to develop tackle technique safely have been proposed. Hendricks and colleagues developed a 5-week tackle technique training framework.³⁵ The framework draws from skill acquisition and development literature, and outlines how to progressively develop tackle technique proficiency through altering the conditions and coaching style of the sessions.³⁵ Although more research is required to assess the efficacy of the tackle technique training programme, it serves as a potential tool to translate declarative knowledge to procedural knowledge, and ultimately improve tackle technique in training and matches.

Limitations and future research recommendations

This study sets out to describe the relationship between the knowledge of the importance of contact technique

and contact technique proficiency. However, as most of the players in this study (over 90%) reported both tackle and ball-carry technique to be important to improve performance and reduce injuries, the knowledge of players regarding the importance of tackle technique in this study was somewhat homogeneous. Therefore, rather than the relationship between ranges of tackle technique knowledge and proficiency, the results of this study may reflect the variance of tackle technique in players with a high level of knowledge of the importance of tackle technique. Further research may be warranted to describe the relationship between players with varying levels of knowledge and technique proficiency. However, as continuing endeavours ensue to improve the declarative knowledge of safe and effective technique in rugby union players, recruitment for such a study may be challenging. Also, it may be of interest to know players' perceptions of whether they are applying their tackle knowledge in training and matches. Although the tackle drill was designed to have a high degree of ecological validity and representativeness (phase before tackle, instructions to score or prevent the try, using rugby field demarcations), we acknowledge that the drill is only a simulated scenario of a match. With that said, the technical proficiency scores in the current drill are comparable with the scores recorded in matches. Burger *et al.*⁴ using the same criteria, reported technical proficiency scores in elite U18 matches of 9.3 and 9.0 for the tackler and ball carrier, respectively. In comparison, the players in this cohort scored 8.9 and 9.3 for tackling and ball-carrying technique, respectively. This comparison highlights a potential avenue of research, that is, determining the relationship between the technique proficiency in training and in matches.

CONCLUSION

This is the first study to compare players' knowledge of the importance of proper tackle technique for injury prevention and performance with their tackle and ball-carry technique proficiency. Although there was a high level of awareness of the importance of technique to improve performance and promote safety, their knowledge was not related to their technique proficiency. The findings reveal a gap between players' knowledge of the importance of proper tackle technique and their execution of proper tackle technique, and support the need for contact skill training programmes in rugby union.

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Contributors SdH was involved in the conception of the study, the data collection, analysis and interpretation, drafted the article and approved the final version for publication. ML and BJ critically revised the article and approved the final version for publication. SH was involved in the conception of the study, the data analysis and interpretation, critically revised the article and approved the final version for publication.

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07/08/2019

Investigation into the Tackle Contact Situation from the Perspective of Rugby Union Players

Investigation into the Tackle Contact Situation from the Perspective of Rugby Union Players

The tackle contact situation (which includes the ball-carrier and tackler) is a fundamental component of rugby and the ability to engage in tackle contact is a pre-requisite for participation. The purpose of this questionnaire is to gain insight into the:

- Knowledge and opinions of rugby players around the tackle contact situation, as a ball-carrier and tackler, in training and in matches.
- Training and match behaviours around the tackle contact situation

This information will prove invaluable in our understanding and development of better coaching strategies to improve the game of rugby union, and make it safer for all.

*Required

Player Information

1. Surname *

2. Name *

3. Club *

4. Date of birth *

Example: 15 December 2012

07/08/2019

Investigation into the Tackle Contact Situation from the Perspective of Rugby Union Players

5. Position *

indicate the position you mostly play
Mark only one oval.

- ☐ 1
- ☐ 2
- ☐ 3
- ☐ 4
- ☐ 5
- ☐ 6
- ☐ 7
- ☐ 8
- ☐ 9
- ☐ 10
- ☐ 11
- ☐ 12
- ☐ 13
- ☐ 14
- ☐ 15

6. What is the highest level you have played? *

i.e., professional team, academy, country,
province, club

7. What is the current level you are playing? *

i.e., professional team, academy, country,
province, club

07/08/2019

Investigation into the Tackle Contact Situation from the Perspective of Rugby Union Players

8. What was your age when you started playing rugby **Mark only one oval.*

- ☐ <5
☐ 6
☐ 7
☐ 8
☐ 9
☐ 10
☐ 11
☐ 12
☐ 13
☐ 14
☐ 15
☐ 16
☐ 17
☐ 18
☐ 19
☐ >20

Training Questions

All questions should be answered based on your current or most recent season's training unless stated otherwise.

- The questions are set out that you may answer on a rating scale (except for Questions 1 where an exact amount is needed).
- A "not familiar (NF)" option in certain questions will also be provided if you do not know what we are talking about.

9. 1. What do you think is the risk of injury for the different phases of play? **Mark only one oval per row.*

| | Very low risk | Low risk | Undecided | High risk | Very high risk |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Scrum | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Ball-carrying (Taking ball into contact) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Tackling | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Line-out | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Ruck | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Maul | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Catching and Passing (Ball Handling) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Falling to the ground | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

10. Other (specify)

07/08/2019

Investigation into the Tackle Contact Situation from the Perspective of Rugby Union Players

11. 2. How important is being coached the proper technique to you for the following phases of play? **Mark only one oval per row.*

| | Not at all important | Not important | Undecided | Somewhat important | Very important |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Scrum | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Ball-carrying (Taking ball into contact) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Tackling | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Line-out | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Ruck | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Maul | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Catching and Passing (Ball handling) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Falling to the ground | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

12. 3. How important is coaching proper technique to you for the following? (Assuming safety and performance are separate objectives) *

Ball-carrying

Mark only one oval per row.

| | Not at all important | Not too important | Undecided | Somewhat important | Very important |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Safety (Lowering the risk of injury) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Performance (Dominating the contact point and progressing the ball towards the try-line) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

13. *

Tackling

Mark only one oval per row.

| | Not at all important | Not too important | Undecided | Somewhat important | Very important |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Safety (Lowering the risk of injury) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Performance (Dominating the contact point and winning territory) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

14. 4. How important are the following for your tackling? **Mark only one oval per row.*

| | Not at all important | Not too important | Undecided | Somewhat important | Very important |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Physical conditioning | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Mental conditioning | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

07/08/2019

Investigation into the Tackle Contact Situation from the Perspective of Rugby Union Players

15. 5. How important are the following for your ability to carry the ball into contact? **Mark only one oval per row.*

| | Not at all important | Not too important | Undecided | Somewhat important | Very important |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Physical conditioning | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Mental conditioning | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

16. 6a. How important do you think the following technical components of ball-carrying are for preventing injuries? *

Pre-contact

Mark only one oval per row.

| | NF | Not at all important | Not too important | Undecided | Somewhat important | Very important |
|----------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Eyes focused on tackler | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Shift the ball away from contact | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Body position - upright to low | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Body position - straight back | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Head up and forward, eyes open | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Shuffle or evasive manoeuvre | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

17. *

Contact

Mark only one oval per row.

| | NF | Not at all important | Not too important | Undecided | Somewhat important | Very important |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Fend into contact | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Side-on into contact | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Explosiveness on contact | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Body position - from a low body position up into contact | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Ball protection | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

18. *

Post-contact

Mark only one oval per row.

| | NF | Not at all important | Not too important | Undecided | Somewhat important | Very important |
|-------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Leg drive up on contact | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Arm and shoulder usage | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Go to ground and present ball | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

07/08/2019

Investigation into the Tackle Contact Situation from the Perspective of Rugby Union Players

19. 6b. How important do you think the following technical components of tackling are for preventing injuries? *

Pre-contact

Mark only one oval per row.

| | NF | Not at all important | Not too important | Undecided | Somewhat important | Very important |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Identify/track ball-carrier onto shoulder | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Body position - upright to low | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Body position - straight back | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Square to ball-carrier | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Boxer stance (elbows close, hands up) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Head up and forward | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Shortening steps | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Approach from front/oblique | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

20. *

Contact

Mark only one oval per row.

| | NF | Not at all important | Not too important | Undecided | Somewhat important | Very important |
|------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Explosiveness on contact | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Contact with shoulder | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Contact in centre of gravity | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Head placement on the correct side | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

21. *

Post-contact

Mark only one oval per row.

| | NF | Not at all important | Not too important | Undecided | Somewhat important | Very important |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Shoulder usage | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Arm usage (hit-and-stick) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Leg drive upon contact | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Release ball-carrier and compete for possession | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

07/08/2019

Investigation into the Tackle Contact Situation from the Perspective of Rugby Union Players

22. 7a. How important do you think the following technical components of ball-carrying are for winning the tackle contest? *

Pre-contact

Mark only one oval per row.

| | NF | Not at all important | Not too important | Undecided | Somewhat important | Very important |
|----------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Eyes focused on tackler | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Shift the ball away from contact | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Body position - upright to low | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Body position - straight back | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Head up and forward, eyes open | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Shuffle or evasive manoeuvre | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

23. *

Contact

Mark only one oval per row.

| | NF | Not at all important | Not too important | Undecided | Somewhat important | Very important |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Fend into contact | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Side-on into contact | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Explosiveness on contact | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Body position - from a low body position up into contact | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Ball protection | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

24. *

Post-contact

Mark only one oval per row.

| | NF | Not at all important | Not too important | Undecided | Somewhat important | Very important |
|-------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Leg drive up on contact | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Arm and shoulder usage | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Go to ground and present ball | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

07/08/2019

Investigation into the Tackle Contact Situation from the Perspective of Rugby Union Players

25. 7b. How important do you think the following technical components of tackling are for winning the tackle contest? *

Pre-contact

Mark only one oval per row.

| | NF | Not at all important | Not too important | Undecided | Somewhat important | Very important |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Identify/track ball-carrier onto shoulder | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Body position - upright to low | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Body position - straight back | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Square to ball-carrier | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Boxer stance (elbows close, hands up) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Head up and forward | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Shortening steps | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Approach from front/oblique | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

26. *

Contact

Mark only one oval per row.

| | NF | Not at all important | Not too important | Undecided | Somewhat important | Very important |
|------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Explosiveness on contact | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Contact with shoulder | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Contact in centre of gravity | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Head placement on the correct side | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

27. *

Post-contact

Mark only one oval per row.

| | NF | Not at all important | Not too important | Undecided | Somewhat important | Very important |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Shoulder usage | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Arm usage (hit-and-stick) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Leg drive upon contact | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Release ball-carrier and compete for possession | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

07/08/2019

Investigation into the Tackle Contact Situation from the Perspective of Rugby Union Players

28. 8. When doing a tackle contact drill during a team/squad field session, how much time is spent on the following? *

Answer according to the last season

Mark only one oval per row.

| | Not at all | A little | A fair amount | Much | Very much |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Emphasising proper ball-carrying technique for safety | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Emphasising proper ball-carrying technique to improve performance | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Emphasising proper tackling technique for safety | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Emphasising proper tackling technique to improve performance | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

29. 9. How much did you learn about tackle contact technique in the different age categories? *

Mark only one oval per row.

| | N/A | Not at all | A little | A fair amount | Much | Very much |
|----------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Under 10 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Under 13 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Under 16 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Under 19 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Seniors | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

30. 10a. When coached front-on tackle technique, how much emphasis was placed on the following pointers for carrying the ball into contact? *

Pre-contact

Mark only one oval per row.

| | NF | Never | Rarely | Sometimes | Frequently | Always |
|----------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Eyes focused on tackler | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Shift the ball away from contact | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Body position - upright to low | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Body position - straight back | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Head up and forward, eyes open | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Shuffle or evasive manoeuvre | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

31. *

Contact

Mark only one oval per row.

| | NF | Never | Rarely | Sometimes | Frequently | Always |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Fend into contact | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Side-on into contact | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Explosiveness on contact | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Body position - from a low body position up into contact | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Ball protection | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

07/08/2019

Investigation into the Tackle Contact Situation from the Perspective of Rugby Union Players

32. *

Post-contact

Mark only one oval per row.

| | NF | Never | Rarely | Sometimes | Frequently | Always |
|-------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Leg drive up on contact | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Arm and shoulder usage | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Go to ground and present ball | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

33. 10b. When coached front-on tackle technique, how much emphasis was placed on the following pointers for tackling? *

Pre-contact

Mark only one oval per row.

| | NF | Never | Rarely | Sometimes | Frequently | Always |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Identify/track ball-carrier onto shoulder | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Body position - upright to low | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Body position - straight back | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Square to ball-carrier | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Boxer stance (elbows close, hands up) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Head up and forward | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Shortening steps | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Approach from front/oblique | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

34. *

Contact

Mark only one oval per row.

| | NF | Never | Rarely | Sometimes | Frequently | Always |
|------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Explosiveness on contact | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Contact with shoulder | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Contact in centre of gravity | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Head placement on the correct side | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

35. *

Post-contact

Mark only one oval per row.

| | NF | Never | Rarely | Sometimes | Frequently | Always |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Shoulder usage | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Arm usage (hit-and-stick) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Leg drive upon contact | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Release ball-carrier and compete for possession | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

Match Questions

All questions should be answered based on your current or most recent season's matches unless stated otherwise.

- The questions are set out that you may answer on a rating scale of 1 to 5 (except for Questions 1 where an exact amount is needed). The meaning of each of the numbers will be given on top of the answers table unless stated otherwise.
- A "not familiar (NF)" option in certain questions will also be provided if you do not know what we are talking about.

07/08/2019

Investigation into the Tackle Contact Situation from the Perspective of Rugby Union Players

36. 1. What is important to you when entering a tackle contact situation during a match? **Mark only one oval per row.*

| | Not at all important | Not too important | Undecided | Somewhat important | Very important |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Doing what you practiced | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Proper technique | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Dominating the contact point at all costs | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Your own safety (lowering your risk of getting injured) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Safety of the opponent (lowering the risk of the opponent getting injured) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Winning territory | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Playing the ball only (maintaining or regaining possession of the ball) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Leg drive after contact | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

37. Further Comment (Any additional information regarding this question):

38. 2. Please rate your enjoyment when carrying the ball into contact **Mark only one oval.*

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | |
|------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------|
| Not at all | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Very Much |

39. 3. Please rate your enjoyment when making a tackle **Mark only one oval.*

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | |
|------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------|
| Not at all | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Very Much |

40. 4. Please rate how motivated you are to carry the ball into contact **Mark only one oval.*

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | |
|------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------|
| Not at all | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Very Much |

07/08/2019

Investigation into the Tackle Contact Situation from the Perspective of Rugby Union Players

41. 5. Please rate how motivated you are to tackle **Mark only one oval.*

| | | | | | | | | | | | |
|------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | |
| Not at all | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Very Much |

42. 6. How much do you agree with the following statements? **Mark only one oval per row.*

| | Strongly disagree | Mildly disagree | Neutral | Mildly agree | Strongly agree |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Techniques that reduce the risk of injury (safe techniques), can also improve performance. | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Techniques that improve performance, can also reduce the risk of injury. | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| If the latest scientific data showed a new, improved way to train contact tackle technique for safety, I would use it. | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| If the latest scientific data showed a new, improved way to train contact tackle technique to improve performance, I would use it. | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

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